Lamborghini
CALORECLIMA

# Smeraldo

**Monosplit / Multisplit heat pump with DC inverter, in R32 for residential and commercial applications**

# SMERALDO

## THE QUALITY AIR CONDITIONER AT THE RIGHT PRICE

Are you looking for a quality air conditioner at the right price? Take a look at **Smeraldo**, the latest split heat pump system by Lamborghini CaloreClima, in the monosplit and multisplit version, capable of satisfying all your requirements.

Smeraldo simply has everything. Thanks to the optimised cooling circuit and adjustment that regulates the compressor with DC inverter technology, these machines can accurately and promptly reach your temperature setpoints, for both heating and cooling. This means **less noise, maximum comfort and first-class efficiency**, resulting in less kilowatts per hour in your electricity bill. The Smeraldo mono-split versions, for example, never fall below class A$^{++}$.
They also use **R32** refrigerant, the more eco-sustainable gas that does not harm the ozone and has a GWP of about a third compared to the more commonly used R410A.

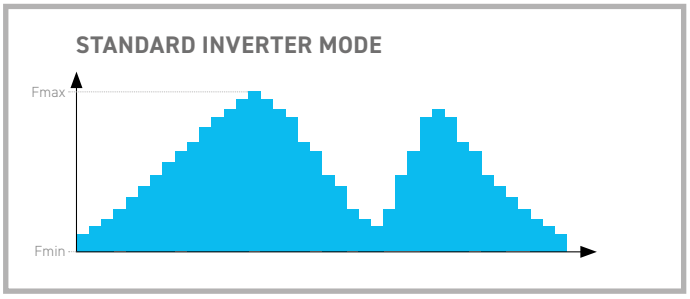
All Smeraldo appliances can be connected to your **Wi-Fi**, as standard, without expensive accessories. Moreover, the new Smeraldo air conditioners are **compatible** with the **"Amazon Alexa"** and **"Google Home"** voice assistants. Thanks to our **free App**, you can easily manage and program them remotely.

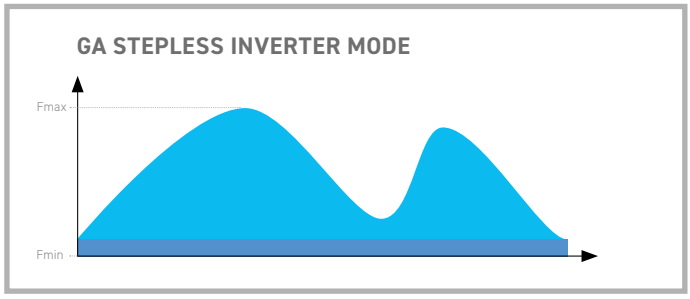
But that's not all, a **double filtration layer** and **cutting-edge treatment of the external coil** are included, ensuring long-term protection from the weather.

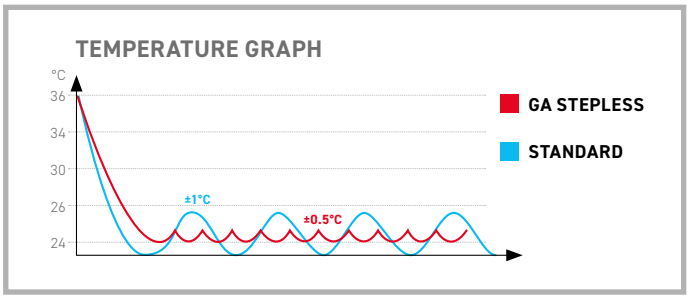
Carry on reading to learn more in the following pages.

# LET'S TAKE A LOOK AT SMERALDO

## HOW IT GUARANTEES YOUR WELL-BEING




Thanks to Lamborghini CaloreClima's **GA Stepless Comfort** technology, the inverters can modulate with minimal frequency fluctuations, so small that some temperature fluctuations in the room will not be noticeable.

But that's not all, the units can also be used in **Boost** mode to reach the required temperatures in the shortest possible time. This may reduce the efficiency of the machines for brief periods, but will be very useful if you need to cool a room quickly.

The **i-Clean** function helps wash away dust, mould and grease that may settle on the heat exchanger, causing unpleasant odours.

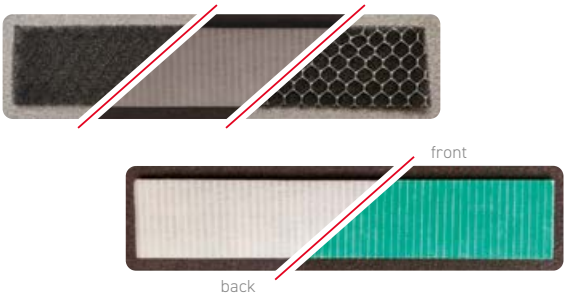
The fan coil runs extra drying cycles, keeping surfaces clean.
**This function is available only for Smeraldo Mono models.**

# LET'S FIND OUT ABOUT...
## ALL THE BENEFITS OF SMERALDO

**SMERALDO**
AVAILABLE IN THE MONO AND MULTI SPLIT VERSION,
FOR ALL REQUIREMENTS

Filtering
Q·U·A·D·R·U·P·L·E

Regarding air quality, Smeraldo air conditioners, in both Mono and Multi Split versions, feature a **quadruple level of filtration**, consisting of **"Cold Catalyst", "Active Carbon", "Silver Ion" and "Biohepa"** filters. In addition to this, Smeraldo is equipped with the new sanitising technology **"Super Ioniser"**.

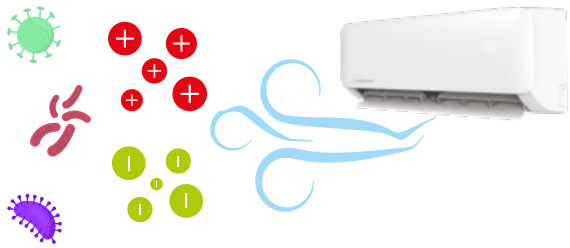



## 4 FILTERS: COLD CATALYST, ACTIVE CARBON, SILVER ION AND BIOHEPA

New four-layer filter technology that purifies the air and removes gases, odours, formaldehydes, pollutants, bacteria, viruses and fungi from it.

## NEW SUPER IONISER

New Ioniser that releases millions of ions to drastically reduce the presence of viruses and bacteria in the air.



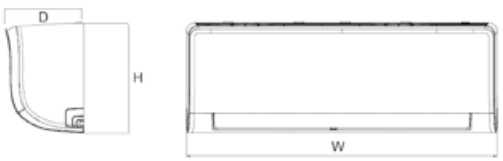

## IN ADDITION TO CONVENIENCE, WI-FI CONNECTIVITY AND VOICE COMMAND COMPATIBILITY ARE INCLUDED

With an unbeatable price, Smeraldo air conditioners guarantee **SEER** and **SCOP**; they can achieve an efficiency class of $A^{++}$ in cooling mode and $A^{+}$ in heating mode (for the typical average temperature band). All the appliances are also supplied with a **Wi-Fi** connection, thanks to which it is possible to connect remotely using the Lamborghini CaloreClima **App**. Moreover, the new range is now compatible with the **"Amazon Alexa"** and **"Google Home"** voice assistants. The remote control supplied (with a larger display as requested by our customers) can, of course, manage all of Smeraldo's functions. Moreover, the App also offers you the possibility of remote access together with the handy **Smart Diagnosis** function, allowing you to run up to 97 function tests on your air conditioner to check that it is working correctly and detect any (highly unlikely) problems.

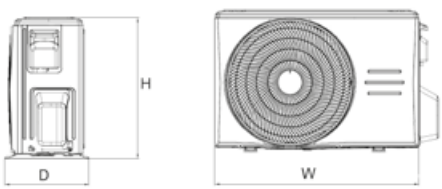
# TECHNICAL DATA
## SMERALDO MONO VERSION

| MODEL | | | 09 | 12 | 18 | 24 |
|---|---|---|---|---|---|---|
| Power supply | | V-Ph-Hz | 220/240 V - 1 phase - 50Hz | | | |
| Cooling power (1) | nominal | W | 2,640 | 3,515 | 5,275 | 5,880 |
| | min-max | W | 1,025 ~ 3,225 | 1,375 ~ 4,310 | 3,390 ~ 5,900 | 2,110 ~ 8,205 |
| Power absorbed in cooling | nominal | W | 733 | 1,089 | 1,550 | 1,765 |
| | min-max | W | 80 ~ 1,100 | 120 ~ 1,650 | 560 ~ 2,050 | 420 ~ 3,200 |
| Current absorbed in cooling | nominal | A | 3.18 | 4.73 | 6.70 | 7.67 |
| | min-max | A | 0.35 ~ 4.78 | 0.5 ~ 7.2 | 2.4 ~ 9.0 | 1.8 ~ 13.9 |
| EER ref. Standard EN14511 (nominal) | | | 3.60 | 3.23 | 3.40 | 3.33 |
| Cooling | SEER | | 7.40 | 7.00 | 7.00 | 6.40 |
| | PdesignC | kW | 2.80 | 3.60 | 5.30 | 7.00 |
| | Class ErP | | A | A | A | A |
| Thermal power (2) | nominal | W | 2,930 | 3,810 | 5,390 | 6,660 |
| | min-max | W | 820 ~ 3,370 | 1,070 ~ 4,380 | 3,100 ~ 5,850 | 1,555 ~ 8,205 |
| Power absorbed in heating | nominal | W | 771 | 1,027 | 1,436 | 1,771 |
| | min-max | W | 70 ~ 990 | 110 ~ 1,480 | 780 ~ 2,000 | 300 ~ 3,100 |
| Current absorbed in heating | nominal | A | 3.35 | 4.46 | 6.23 | 7.70 |
| | min-max | A | 0.32 ~ 4.32 | 0.5 ~ 6.4 | 3.4 ~ 8.7 | 1.3 ~ 13.5 |
| COP ref. Standard EN14511 (nominal) | | | 3.80 | 3.71 | 3.76 | 3.76 |
| Heating Moderate climate zone | SCOP | | 4.10 | 4.20 | 4.00 | 4.00 |
| | PdesignH | kW | 2.50 | 2.50 | 4.20 | 4.90 |
| | Class ErP | | A | A | A | A |
| | Tbiv / Tol | °C | -7 / -15 | -7 / -15 | -7 / -15 | -7 / -15 |
| Heating Warm climate zone | SCOP | | 5.30 | 5.50 | 5.10 | 5.10 |
| | PdesignH | kW | 2.50 | 2.50 | 4.50 | 5.30 |
| | Class ErP | | A | A | A | A |
| | Tbiv / Tol | °C | 2 / -15 | 2 / -15 | 2 / -15 | 2 / -15 |
| Maximum power absorbed | | W | 2,150 | 2,150 | 2,500 | 3,700 |
| Maximum current absorbed | | A | 10 | 10 | 13 | 19.0 |
| Inrush current | | A | Negligible thanks to inverter technology | | | |
| Indoor unit | Air flow rate (max-med-min) | $m^3/h$ | 520 / 460 / 330 | 530 / 400 / 350 | 800 / 600 / 500 | 1,090 / 770 / 610 |
| | Sound pressure (3) (max-med-min-slo) | dB(A) | 37 / 32 / 22 / 20 | 37 / 32 / 22 / 21 | 41 / 37 / 31 / 20 | 46 / 37 / 34.5 / 21 |
| | Sound pressure (max) | dB(A) | 54 | 56 | 56 | 62.0 |
| Outdoor unit | Air flow rate | $m^3/h$ | 1,850 | 1,850 | 2,100 | 3,500 |
| | Sound pressure (3) | dB(A) | 55.5 | 55 | 57.0 | 60.0 |
| | Sound power | dB(A) | 62 | 62 | 65.0 | 67.0 |
| Refrigerant gas | Type / GWP | | R32 / 675 | | | |
| | Load quantity | kg | 0.60 | 0.65 | 1.10 | 1.45 |
| Liquid / gas line connections | | inches | 1/4" - 3/8" | 1/4" - 3/8" | 1/4" - 1/2" | 3/8" - 5/8" |
| Maximum length refrigeration lines | | m | 25 | 25 | 30 | 50 |
| Maximum height difference | | m | 10 | 10 | 20 | 25 |

**(1)** External air temperature = 35°C D.B. • Room air temperature = 27°C D.B. / 19°C W.B. - **(2)** External air temperature = 7°C D.B. / 6°C W.B. • Room air temperature = 20°C D.B. - **(3)** Sound pressure measured at a distance of 1 m: E.U. in open area, I.U. in 100 $m^3$ room with 0.5 second reverberation time




| MODEL | W mm | H mm | D mm | Weight kg |
|---|---|---|---|---|
| **9** | 726 | 291 | 210 | 8.0 |
| **12** | 835 | 295 | 208 | 8.7 |
| **18** | 969 | 320 | 241 | 11.2 |
| **24** | 1083 | 336 | 244 | 13.6 |



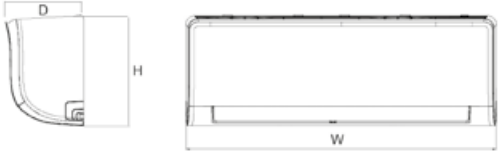

| MODEL | W mm | H mm | D mm | Weight kg |
|---|---|---|---|---|
| **9** | 720 | 495 | 270 | 23.5 |
| **12** | 720 | 495 | 270 | 23.7 |
| **18** | 874 | 554 | 330 | 33.5 |
| **24** | 955 | 673 | 342 | 43.9 |

# TECHNICAL DATA
## SMERALDO MULTI VERSION

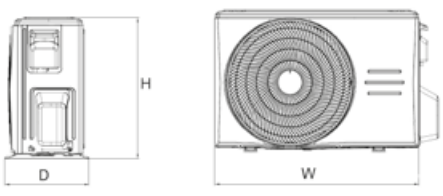
| OUTDOOR UNIT* | | | 18-2 | 27-3 | 28-4 |
|---|---|---|---|---|---|
| Power supply | | V-Ph-Hz | 220/240 V - 1 phase - 50Hz | | |
| Cooling power (1) | nominal | W | 5,275 | 7,915 | 8,205 |
| | min-max | W | 2,225 ~ 5,570 | 3,025 ~ 8,500 | 2,490 ~ 10,255 |
| Power absorbed in cooling | nominal | W | 1,635 | 2,450 | 2,500 |
| | min-max | W | 690 ~ 2,000 | 230 ~ 3,250 | 150 ~ 3,340 |
| Current absorbed in cooling | nominal | A | 7.1 | 11.2 | 10.9 |
| | min-max | A | 3.2 ~ 9.0 | 2.1 ~ 14.7 | 1.3 ~ 14.5 |
| EER ref. Standard EN14511 (nominal) | | | 3.23 | 3.23 | 3.23 |
| Cooling | SEER | | 6.1 | 6.1 | 7 |
| | PdesignC | kW | 5.3 | 7.9 | 8.2 |
| | Class ErP | | A | A | A |
| Thermal power (2) | nominal | W | 5,570 | 8,205 | 8,790 |
| | min-max | W | 2,340 ~ 5,625 | 2,200 ~ 8,500 | 1,605 ~ 10,140 |
| Power absorbed in heating | nominal | W | 1,500 | 2,210 | 2,400 |
| | min-max | W | 600 ~ 1,780 | 330 ~ 2,960 | 280 ~ 3,200 |
| Current absorbed in heating | nominal | A | 6.6 | 10.1 | 10.4 |
| | min-max | A | 2.80 ~ 7.95 | 2.6 ~ 13.5 | 1.98 ~ 14.0 |
| COP ref. Standard EN14511 (nominal) | | | 3.71 | 3.71 | 3.71 |
| Heating Moderate climate zone | SCOP | | 4.0 | 4.0 | 4.0 |
| | PdesignH | kW | 4.5 | 5.7 | 6.8 |
| | Class ErP | | A | A | A |
| | Tbiv / Tol | °C | -7 / -15 | -7 / -15 | -7 / -15 |
| Heating Warm climate zone | SCOP | | 5.1 | 5.1 | 5.1 |
| | PdesignH | kW | 5 | 6 | 6.8 |
| | Class ErP | | A | A | A |
| | Tbiv / Tol | °C | 2 / -15 | 2 / -15 | 2 / -15 |
| Maximum power absorbed | | W | 3,050 | 4,100 | 4,150 |
| Maximum current absorbed | | A | 13 | 18 | 19 |
| Inrush current | | A | Negligible thanks to inverter technology | | |
| Outdoor unit | Air flow rate | $m^3/h$ | 2,100 | 3,000 | 3,800 |
| | Sound pressure (3) | dB(A) | 54 | 55 | 63.0 |
| | Sound power | dB(A) | 65 | 68 | 68 |
| Refrigerant gas | Type / GWP | | R32 /675 | | |
| | Load quantity | kg | 1.25 | 1.85 | 2.1 |

| INDOOR UNIT | | 9 | 12 | 18 |
|---|---|---|---|---|
| Cooling performance | W | 2,640 | 3,515 | 5,275 |
| Thermal performance | W | 2,930 | 3,810 | 5,570 |
| Air flow rate (max-med-min) | $m^3/h$ | 520 / 460 / 330 | 530 / 400 / 350 | 800 / 600 / 500 |
| Sound pressure (max-med-min-slo) | dB(A) | 37 / 32 / 22 / 20 | 37 / 32 / 22 / 21 | 41 / 37 / 31 / 20 |
| Sound pressure (max) | dB(A) | 54 | 56 | 56 |
| Liquid / gas line connections | inches | 1/4" - 3/8" | 1/4" - 3/8" | 1/4" - 1/2" |

**(1)** External air temperature = 35°C D.B. • Room air temperature = 27°C D.B. / 19°C W.B. - **(2)** External air temperature = 7°C D.B. / 6°C W.B. • Room air temperature = 20°C D.B. - **(3)** Sound pressure measured at a distance of 1 m: E.U. in open area, I.U. in 100 $m^3$ room with 0.5 second reverberation time ***** Nominal data, check combinations on the following pages




| MODEL | W mm | H mm | D mm | Weight kg |
|---|---|---|---|---|
| **9** | 726 | 291 | 210 | 8.0 |
| **12** | 835 | 295 | 208 | 8.7 |
| **18** | 969 | 320 | 241 | 11.2 |




| MODEL | W mm | H mm | D mm | Weight kg |
|---|---|---|---|---|
| **18-2** | 805 | 554 | 330 | 35.0 |
| **27-3** | 890 | 673 | 342 | 48.0 |
| **28-4** | 946 | 810 | 410 | 62.1 |

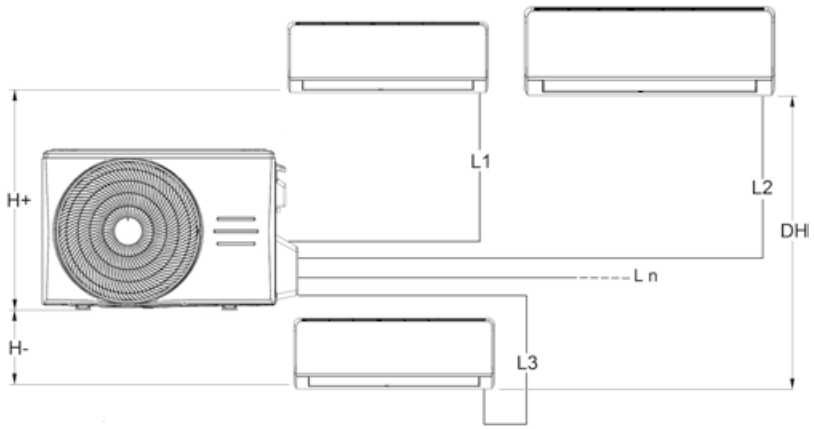
# FEATURES
## LIMITS - POSSIBLE COMBINATIONS

### FIELD OF APPLICATION

| OPERATING MODE | PARAMETER | | INDOOR SIDE | OUTDOOR SIDE |
|---|---|---|---|---|
| Cooling | Input air max/min temperature (B.S.) | °C | 32 / 17 | 50 / -15 |
| Heating | Input air max/min temperature (B.S.) | °C | 30 / 0 | 30 / -15 |
| All | Power voltage / frequency | V | 230±10% / 50±2 | |

### LIMITS ON LENGTH AND HEIGHT DIFFERENCE OF COOLING PIPES

The length of the cooling pipes between the indoor and outdoor units must be the shortest possible and is, in any case, limited by the maximum values in height difference between the two units.
With the decrease in the difference in height between the units (H1,H2) and the length of the pipes (L), the load loss will be limited, thus increasing the overall performance of the machine. Observe the limits indicated in the following tables.




| OUTDOOR UNIT | | | 18-2 | 27-3 | | | 28-4 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | Liquid | " | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" |
| | Gas | " | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" | 1/2" |
| Tot. maximum length | | m | 40 | 60 | | | 80 | | | |
| Maximum length single unit | | m | 25 | 30 | | | 35 | | | |
| Maximum height difference | H+ | m | 15 | 15 | | | 15 | | | |
| | H- | m | 15 | 15 | | | 15 | | | |
| | DH | m | 10 | 10 | | | 10 | | | |
| Total maximum length of pipes with standard load | | m | 7.5 | 7.5 | | | 7.5 | | | |
| Additional quantity of refrigerant per metre | | g/m | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 24 |

### TABLE OF POSSIBLE COMBINATIONS

| OUTDOOR UNIT | INDOOR UNIT CONNECTED | | | | | |
|---|---|---|---|---|---|---|
| | 1 | 2 | | 3 | | 4 |
| 18-2 | 9K | 9K+9K | - | not included | | not included |
| | 12K | 9K+12K | - | | | |
| | 18K | 12K+12K | - | | | |
| 27-3 | 9K | 9K+9K | 12K+12K | 9K+9K+9K | 9K+12K+12K | not included |
| | 12K | 9K+12K | 12K+18K | 9K+9K+12K | 12K+12K+12K | |
| | 18K | 9K+18K | - | 9K+9K+18K | - | |
| 28-4 | 9K | 9K+9K | 12K+12K | 9K+9K+9K | 9K+12K+12K | 9K+9K+9K+9K |
| | 12K | 9K+12K | 12K+18K | 9K+9K+12K | 12K+12K+12K | 9K+9K+9K+12K |
| | 18K | 9K+18K | 18K+18K | 9K+9K+18K | - | - |

**NB**:
- combinations for which the total power required by the indoor units is compatible with the nominal power of the outdoor unit.
- combinations for which the total power required by the indoor units is higher than the nominal power of the outdoor unit. In the event of a simultaneous request for power by all the units connected, the power available for the individual units will be in line with the indications given in the previous table.

# PERFORMANCE IN COOLING MODE

## SUMMARY TABLE

| EU | IU | Combination | Partial capacity (kW) Room | | | | Total capacity in cooling (kW) | | | Power absorbed Total (kW) | | | Current absorbed Total (A) | | | EER | SEER | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | Min | Nom | Max | Min | Nom | Max | Min | Nom | Max | Nom | | |
| 18-2 | 1 | 9 | 2.50 | – | – | – | 1.43 | 2.50 | 3.20 | 0.35 | 0.75 | 0.93 | 1.52 | 3.24 | 4.06 | 3.35 | – | – |
| | | 12 | 3.50 | – | – | – | 1.43 | 3.50 | 3.90 | 0.35 | 1.08 | 1.29 | 1.52 | 4.68 | 5.62 | 3.25 | – | – |
| | 2 | 9+9 | 2.65 | 2.65 | – | – | 2.12 | 5.30 | 6.41 | 0.54 | 1.64 | 2.05 | 2.35 | 7.13 | 8.92 | 3.23 | 6.1 | A |
| | | 9+12 | 2.27 | 3.03 | – | – | 2.12 | 5.30 | 6.41 | 0.54 | 1.64 | 2.05 | 2.35 | 7.13 | 8.92 | 3.23 | 6.1 | A |
| | | 12+12 | 2.65 | 2.65 | – | – | 2.12 | 5.30 | 6.41 | 0.54 | 1.64 | 2.05 | 2.35 | 7.13 | 8.92 | 3.23 | 6.1 | A |
| 27.3 | 2 | 9+9 | 2.65 | 2.65 | – | – | 2.21 | 5.30 | 7.11 | 0.64 | 1.64 | 2.45 | 2.76 | 7.13 | 10.63 | 3.23 | 5.6 | A |
| | | 9+12 | 2.57 | 3.43 | – | – | 2.21 | 6.00 | 7.51 | 0.64 | 1.86 | 2.57 | 2.76 | 8.08 | 11.17 | 3.23 | 5.6 | A |
| | | 9+18 | 2.27 | 4.53 | – | – | 2.21 | 6.80 | 7.90 | 0.64 | 2.09 | 2.69 | 2.76 | 9.10 | 11.70 | 3.25 | 5.6 | A |
| | | 12+12 | 3.15 | 3.15 | – | – | 2.21 | 6.30 | 7.66 | 0.64 | 1.94 | 2.64 | 2.76 | 8.45 | 11.48 | 3.24 | 5.6 | A |
| | | 12+18 | 2.72 | 4.08 | – | – | 2.21 | 6.80 | 7.90 | 0.64 | 2.09 | 2.69 | 2.76 | 9.10 | 11.70 | 3.25 | 5.6 | A |
| | 3 | 9+9+9 | 2.63 | 2.63 | 2.63 | – | 2.77 | 7.90 | 8.69 | 0.76 | 2.45 | 2.91 | 3.30 | 10.63 | 12.65 | 3.23 | 6.1 | A |
| | | 9+9+12 | 2.37 | 2.37 | 3.16 | – | 2.77 | 7.90 | 8.69 | 0.76 | 2.45 | 2.91 | 3.30 | 10.63 | 12.65 | 3.23 | 6.1 | A |
| | | 9+12+12 | 2.15 | 2.87 | 2.87 | – | 2.77 | 7.90 | 8.69 | 0.76 | 2.45 | 2.91 | 3.30 | 10.63 | 12.65 | 3.23 | 6.1 | A |
| | | 12+12+12 | 2.63 | 2.63 | 2.63 | – | 2.77 | 7.90 | 8.69 | 0.76 | 2.45 | 2.91 | 3.30 | 10.63 | 12.65 | 3.23 | 6.1 | A |
| 28.4 | 2 | 9+9 | 2.65 | 2.65 | – | – | 2.05 | 5.30 | 6.81 | 0.63 | 1.64 | 2.28 | 2.76 | 7.13 | 9.93 | 3.23 | 5.1 | B |
| | | 9+12 | 2.57 | 3.43 | – | – | 2.05 | 6.00 | 6.97 | 0.63 | 1.86 | 2.41 | 2.76 | 8.08 | 10.49 | 3.23 | 5.1 | B |
| | | 9+18 | 2.43 | 4.87 | – | – | 2.05 | 7.30 | 7.54 | 0.63 | 2.26 | 2.79 | 2.76 | 9.83 | 12.14 | 3.23 | 5.1 | B |
| | | 12+12 | 3.25 | 3.25 | – | – | 2.05 | 6.50 | 7.38 | 0.63 | 2.01 | 2.49 | 2.76 | 8.75 | 10.82 | 3.23 | 5.1 | B |
| | | 12+18 | 2.92 | 4.38 | – | – | 2.05 | 7.30 | 7.54 | 0.63 | 2.26 | 2.79 | 2.76 | 9.83 | 12.14 | 3.23 | 5.1 | B |
| | | 18+18 | 3.75 | 3.75 | – | – | 2.05 | 7.50 | 7.54 | 0.63 | 2.32 | 2.79 | 2.76 | 10.10 | 12.14 | 3.23 | 5.1 | B |
| | 3 | 9+9+9 | 2.37 | 2.37 | 2.37 | – | 2.62 | 7.10 | 8.45 | 0.76 | 2.20 | 2.94 | 3.31 | 9.56 | 12.80 | 3.23 | 5.6 | A |
| | | 9+9+12 | 2.34 | 2.34 | 3.12 | – | 2.62 | 7.80 | 8.45 | 0.76 | 2.41 | 2.94 | 3.31 | 10.50 | 12.80 | 3.23 | 5.6 | A |
| | | 9+9+18 | 1.95 | 1.95 | 3.90 | – | 2.62 | 7.80 | 8.45 | 0.76 | 2.41 | 2.94 | 3.31 | 10.50 | 12.80 | 3.23 | 5.6 | A |
| | | 9+12+12 | 2.13 | 2.84 | 2.84 | – | 2.62 | 7.80 | 8.45 | 0.76 | 2.41 | 2.94 | 3.31 | 10.50 | 12.80 | 3.23 | 5.6 | A |
| | | 9+12+18 | 1.80 | 2.40 | 3.60 | – | 2.62 | 7.80 | 8.45 | 0.76 | 2.41 | 2.94 | 3.31 | 10.50 | 12.80 | 3.23 | 5.6 | A |
| | | 12+12+12 | 2.60 | 2.60 | 2.60 | – | 2.62 | 7.80 | 8.45 | 0.76 | 2.41 | 2.94 | 3.31 | 10.50 | 12.80 | 3.23 | 5.6 | A |
| | 4 | 9+9+9+9 | 2.05 | 2.05 | 2.05 | 2.05 | 2.87 | 8.20 | 9.92 | 0.86 | 2.54 | 3.17 | 3.75 | 11.04 | 13.80 | 3.23 | 7.0 | A |
| | | 9+9+9+12 | 1.89 | 1.89 | 1.89 | 2.52 | 2.87 | 8.20 | 9.92 | 0.86 | 2.54 | 3.17 | 3.75 | 11.04 | 13.80 | 3.23 | 7.0 | A |

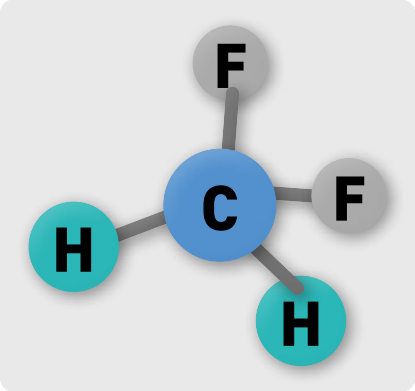
# PERFORMANCE IN HEATING MODE

## SUMMARY TABLE

| EU | IU | Combination | Partial capacity (kW) Room | | | | Total capacity in heating (kW) | | | Power absorbed Total (kW) | | | Current absorbed Total (A) | | | COP | SCOP | Energy class |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | Min | Nom | Max | Min | Nom | Max | Min | Nom | Max | Nom | | |
| 18-2 | 1 | 9 | 3.00 | – | – | – | 1.56 | 3.00 | 3.63 | 0.32 | 0.80 | 1.00 | 1.39 | 3.48 | 4.35 | 3.75 | – | – |
| | | 12 | 3.80 | – | – | – | 1.56 | 3.80 | 4.60 | 0.32 | 1.02 | 1.23 | 1.39 | 4.45 | 5.34 | 3.71 | – | – |
| | 2 | 9+9 | 2.79 | 2.79 | – | – | 2.23 | 5.57 | 6.68 | 0.51 | 1.50 | 1.88 | 2.22 | 6.53 | 8.16 | 3.71 | 4.0 | |
| | | 9+12 | 2.40 | 3.20 | – | – | 2.23 | 5.60 | 6.68 | 0.51 | 1.51 | 1.88 | 2.22 | 6.56 | 8.16 | 3.71 | 4.0 | |
| | | 12+12 | 2.80 | 2.80 | – | – | 2.23 | 5.60 | 6.96 | 0.51 | 1.51 | 1.88 | 2.22 | 6.56 | 8.16 | 3.71 | 4.0 | |
| 27-3 | 2 | 9+9 | 3.00 | 3.00 | – | – | 2.30 | 6.00 | 7.38 | 0.57 | 1.62 | 2.21 | 2.50 | 7.03 | 9.61 | 3.71 | 3.8 | |
| | | 9+12 | 2.70 | 3.60 | – | – | 2.30 | 6.30 | 7.79 | 0.57 | 1.70 | 2.32 | 2.50 | 7.38 | 10.09 | 3.71 | 3.8 | |
| | | 9+18 | 2.33 | 4.67 | – | – | 2.30 | 7.00 | 8.20 | 0.57 | 1.89 | 2.43 | 2.50 | 8.20 | 10.57 | 3.71 | 3.8 | |
| | | 12+12 | 3.25 | 3.25 | – | – | 2.30 | 6.50 | 7.95 | 0.57 | 1.75 | 2.39 | 2.50 | 7.62 | 10.38 | 3.71 | 3.8 | |
| | | 12+18 | 2.80 | 4.20 | – | – | 2.30 | 7.00 | 8.20 | 0.57 | 1.89 | 2.43 | 2.50 | 8.20 | 10.57 | 3.71 | 3.8 | |
| | 3 | 9+9+9 | 2.73 | 2.73 | 2.73 | – | 2.87 | 8.20 | 9.84 | 0.69 | 2.21 | 2.76 | 2.98 | 9.61 | 12.01 | 3.71 | 4.0 | |
| | | 9+9+12 | 2.49 | 2.49 | 3.32 | – | 2.87 | 8.30 | 9.84 | 0.69 | 2.24 | 2.76 | 2.98 | 9.73 | 12.01 | 3.71 | 4.0 | |
| | | 9+12+12 | 2.26 | 3.02 | 3.02 | – | 2.87 | 8.30 | 9.84 | 0.69 | 2.24 | 2.76 | 2.98 | 9.73 | 12.01 | 3.71 | 4.0 | |
| | | 12+12+12 | 2.77 | 2.77 | 2.77 | – | 2.87 | 8.30 | 9.84 | 0.69 | 2.24 | 2.76 | 2.98 | 9.73 | 12.01 | 3.71 | 4.0 | |
| 28-4 | 2 | 9+9 | 3.00 | 3.00 | – | – | 2.20 | 6.00 | 7.30 | 0.59 | 1.62 | 2.13 | 2.58 | 7.03 | 9.28 | 3.71 | 3.4 | |
| | | 9+12 | 3.00 | 4.00 | – | – | 2.20 | 7.00 | 7.48 | 0.59 | 1.89 | 2.25 | 2.58 | 8.20 | 9.80 | 3.71 | 3.4 | |
| | | 9+18 | 2.63 | 5.27 | – | – | 2.20 | 7.90 | 8.10 | 0.59 | 2.13 | 2.61 | 2.58 | 9.26 | 11.34 | 3.71 | 3.4 | |
| | | 12+12 | 3.75 | 3.75 | – | – | 2.20 | 7.50 | 7.92 | 0.59 | 2.02 | 2.32 | 2.58 | 8.79 | 10.11 | 3.71 | 3.4 | |
| | | 12+18 | 3.20 | 4.80 | – | – | 2.20 | 8.00 | 8.10 | 0.59 | 2.16 | 2.61 | 2.58 | 9.38 | 11.34 | 3.71 | 3.4 | |
| | | 18+18 | 4.00 | 4.00 | – | – | 2.20 | 8.00 | 8.10 | 0.59 | 2.16 | 2.61 | 2.58 | 9.38 | 11.34 | 3.71 | 3.4 | |
| | 3 | 9+9+9 | 2.87 | 2.87 | 2.87 | – | 2.82 | 8.60 | 9.06 | 0.71 | 2.32 | 2.75 | 3.09 | 10.08 | 11.96 | 3.71 | 3.5 | |
| | | 9+9+12 | 2.58 | 2.58 | 3.44 | – | 2.82 | 8.60 | 9.06 | 0.71 | 2.32 | 2.75 | 3.09 | 10.08 | 11.96 | 3.71 | 3.5 | |
| | | 9+9+18 | 2.15 | 2.15 | 4.30 | – | 2.82 | 8.60 | 9.06 | 0.71 | 2.32 | 2.75 | 3.09 | 10.08 | 11.96 | 3.71 | 3.5 | |
| | | 9+12+12 | 2.35 | 3.13 | 3.13 | – | 2.82 | 8.60 | 9.06 | 0.71 | 2.32 | 2.75 | 3.09 | 10.08 | 11.96 | 3.71 | 3.5 | |
| | | 9+12+18 | 1.98 | 2.65 | 3.97 | – | 2.82 | 8.60 | 9.06 | 0.71 | 2.32 | 2.75 | 3.09 | 10.08 | 11.96 | 3.71 | 3.5 | |
| | | 12+12+12 | 2.87 | 2.87 | 2.87 | – | 2.82 | 8.60 | 9.06 | 0.71 | 2.32 | 2.75 | 3.09 | 10.08 | 11.96 | 3.71 | 3.5 | |
| | 4 | 9+9+9+9 | 2.23 | 2.23 | 2.23 | 2.2 | 3.08 | 8.90 | 10.65 | 0.81 | 2.40 | 2.96 | 3.51 | 10.43 | 12.89 | 3.71 | 4.0 | |
| | | 9+9+9+12 | 2.10 | 2.10 | 2.10 | 2.8 | 3.08 | 9.10 | 10.65 | 0.81 | 2.45 | 2.96 | 3.51 | 10.66 | 12.89 | 3.71 | 4.0 | |

# BUT WHAT IS R32?

## WHY IS IT CONSIDERED ENVIRONMENTALLY FRIENDLY?




**DI-FLUORO-METHANE**
**i.e.**
$CH_2F_2$

It is no longer a question of the hole in the ozone. R11, R12 and R22 have been banned for years now.

All new refrigerants must have **ODP** (Ozone Depletion Potential, i.e. the potential damage that the gas can cause to the ozone layer) must be nil, equal to zero.
We now talk about **GWP**.

GWP is the acronym for **Global Warming Potential** and indicates the potential impact that a refrigerant gas could have if it was released into the environment.

This allows the impact of 1kg of gas to be compared with 1 kg of $CO_2$, over a period of 100 years.

For example, R410A has a GWP of 2,088. This basically means that 1 kg of R410A has the same impact as 2,088 kg of $CO_2$ (i.e. the equivalent of over 2 tons of $CO_2$).

***Lamborghini CaloreClima has chosen R32 gas for these machines with a GWP of 675, virtually a third compared to R410A.***

***But R32 is not the latest of the innovations since it has been around for quite a while.***

***Just consider that the "old" R410A was a mixture of 50% R32.***

**R32** offers many benefits on small-medium power machines. It IS a gas with similar features to R410A, but with even **better thermodynamic properties**!

When comparing the two gases on machines of a similar construction (compressors of equivalent power and similar exchange surfaces), R32 allows you to achieve the same capacities, **but with greater efficiency and a reduced refrigerant load**!

This means using less gas with a lower GWP. In practical terms,we are not far wrong by stating that R32 leads to a **reduction of about 75% of emissions**, compare to the same machine with R410A.

## BUT WILL R32 BE THE GAS OF THE FUTURE?

We have no problem in telling you no. We believe that R32 is an interim gas, but currently it is one of the best compromises in terms of performance and environmental impact. There are lots of other alternatives being developed, including natural ones.

**Lamborghini CaloreClima is also leading the way in this and we will let you know about any developments on the market.**

# SMERALDO - COMMERCIAL APPLICATION

## THE IDEAL SOLUTION FOR COMMERCIAL APPLICATIONS

Lamborghini CaloreClima's Smeraldo C commercial range includes a wide range of outdoor units (from 3.5 kW up to 15 kW) with axial fan, combinable with different types of indoor units: cassette, ducted, floor-ceiling and floor-standing units.

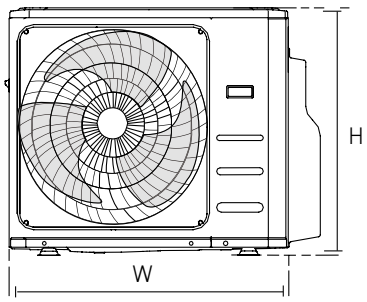
# SMERALDO C
## EXTERNAL UNIT

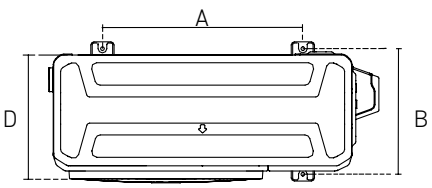
- The units all incorporate a Full DC Inverter compressor, which together with the special design of the fan and the latest generation inverter control allows the unit to achieve high performance and low noise levels
- Refrigerant flow control using an electronic expansion valve
- Single-phase power supply (models 12-18-24-30-36-42-48) and three-phase (models 36T-48T-55T)
- The units also have Golden Fin coils (anti-corrosion treatment) which extends the useful life of the equipment
- Furthermore It has WIFI communication, which allows optional control of the equipment through a smartphone or tablet via the own APP
- The outdoor unit has been designed with a single fan in all models, resulting in a unit of reduced dimensions, with a height of less than 1m, which facilitates its architectural integration into the building.
- Maximum piping length: 25-30m for models up to 18, 50m for models 24 and 30, and 75m for models 36-50

R32 GAS

| MODEL | | 12 | 18 | 24 | 30 | 36 | 36T | 42 | 48 | 48T | 55T |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | V / Hz / Ph | 220-240V / 1Ph / 50Hz | | | | | 380-415V / 3Ph / 50Hz | 220-240V / 1Ph / 50Hz | | 380-415V / 3Ph / 50Hz | |
| Max input consumption | W | 1850 | 2950 | 3700 | 4500 | 5000 | 5000 | 5000 | 7300 | 7300 | 7500 |
| Max current | A | 9 | 13.5 | 19 | 20 | 22.5 | 10 | 22.5 | 32 | 14 | 14 |
| Compressor type | | Rotary | | | | | | | | | |
| Outdoor air flow (Hi) | | 2200 | 2100 | 3500 | 3800 | 4000 | 4000 | 4000 | 5600 | 5600 | 5600 |
| Dimension (W*D*H) | mm | 765 x 303 x 555 | 805 x 330 x 554 | 890 x 342 x 673 | 946 x 410 x 810 | 946 x 410 x 810 | 946 x 410 x 810 | 946 x 410 x 810 | 980 x 415 x 975 | 980 x 415 x 975 | 980 x 415 x 975 |
| Packing (W*D*H) | mm | 887 x 337 x 610 | 915 x 370 x 615 | 995 x 398 x 740 | 1090 x 500 x 885 | 1090 x 500 x 885 | 1090 x 500 x 885 | 1090 x 500 x 885 | 1145 x 500 x 1080 | 1145 x 500 x 1080 | 1145 x 500 x 1080 |
| Net / Gross weight | Kg | 26.6 / 29 | 32.5 / 35.2 | 41.9 / 45.2 | 51 / 55.7 | 66.9 / 71.5 | 80.5 / 85 | 71.0 / 75.0 | 82.5 / 97 | 90 / 105 | 92 / 107 |
| Refrigerant type | | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 | R32 |
| Refrigerant GWP | | 675 | 675 | 675 | 675 | 675 | 675 | 675 | 675 | 675 | 675 |
| Refrigerant | Kg | 0.71 | 1.15 | 1.4 | 1.8 | 2.4 | 2.4 | 2.8 | 2.9 | 2.9 | 3.2 |
| Liquid side / Gas side | mm (inch) | 6.35 (1/4) / 9.52 (3/8) | 6.35 (1/4) / 12.7 (1/2) | 9.52 (3/8) / 15.9 (5/8) | | | | | | | |
| Max refrigerant pipe length | m | 25 | 30 | 50 | 50 | 75 | 75 | 75 | 75 | 75 | 75 |
| Max difference in level | m | 10 | 20 | 25 | 25 | 30 | 30 | 30 | 30 | 30 | 30 |
| Outdoor temp. in Cooling | °C | -15 ~ 50 | | | | | | | | | |
| Outdoor temp. in Heating | °C | -20 ~ 24 | | | | | | | | | |

NOTE: The above design and specifications are subject to change without prior notice for product improvement.




| MODEL | | W | H | D | A | B |
|---|---|---|---|---|---|---|
| 12 | mm | 765 | 555 | 303 | 452 | 286 |
| 18 | mm | 805 | 554 | 330 | 511 | 317 |
| 24 | mm | 890 | 673 | 342 | 663 | 354 |
| 30-36-36T- 42 | mm | 946 | 810 | 410 | 673 | 403 |
| 48-48T-55T | mm | 980 | 975 | 415 | 616 | 397 |

# SMERALDO C
## CASSETTE INDOOR UNIT

models 12-18

models 24-55T

**The new cassette is perfect to integrate in any ceeling thanks to reduced dimensions**

- Cassette internal unit with reduced height
- Golden Fin protection in coil
- DC Inverter fan, to obtein high efficiency and reduced sound level
- 360° outlet air flow for better temperature distribution in the room space
- Integrated condensate drainage pump
- Arrangement for renewal air inlet or intake in adjacent room by canalization
- Infrared remote control as standard with a large display for complete control of the unit (wired remote control available as accessory)
- WIFI connection available. Possibility of controlling the unit via APP

# SMERALDO C
## CASSETTE INDOOR UNIT

| MODEL | | | 12 | 18 | 24 | 30 | 36 |
|---|---|---|---|---|---|---|---|
| Cooling | Pdesignc | kW | 3.5 | 5.3 | 7.1 | 8.8 | 10.5 |
| | SEER | W/W | 6.8 | 6.5 | 6.3 | 6.6 | 6.7 |
| | Energy Efficiency Class | | A | A | A | A | A |
| Heating (Average) | Pdesignh | kW | 2.7 | 4.2 | 6.2 | 7.7 | 8.5 |
| | SCOP | W/W | 4.1 | 4.1 | 4.1 | 4.2 | 4.0 |
| | Energy Efficiency Class | | A | A | A | A | A |
| | Tbiv | °C | -7 | -7 | -7 | -7 | -7 |
| Heating (Warmer) | Pdesignh | kW | 3.3 | 5.3 | 6.3 | 7.8 | 10.1 |
| | SCOP | W/W | 5.1 | 5.1 | 5.4 | 5.1 | 5.1 |
| | Energy Efficiency Class | | A | A | A | A | A |
| | Tbiv | °C | 2 | 2 | 2 | 2 | 2 |
| Tol | | °C | -15 | -15 | -15 | -15 | -15 |
| Power supply - Indoor | | V, Hz, Ph | 220-240V,1 Ph, 50Hz | | | | |
| Power supply - Outdoor | | V, Hz, Ph | 220-240V, 1Ph, 50Hz | | | | |
| Cooling | Capacity | Btu/h | 12000 (2900~14200) | 18000 (9900~20000) | 22180 (11250~27000) | 30000 (7600~32000) | 33956 (9200~39000) |
| | Capacity | kW | 3.52 (0.85~4.16) | 5.28 (2.90~5.59) | 6.50 (3.29~7.91) | 8.79 (2.23~9.38) | 9.95 (2.70~11.43) |
| | Input | W | 1015 (160~1450) | 1550 (720~2040) | 2000 (780~2750) | 2720 (190~3000) | 2989 (900~4200) |
| | Current | A | 4.5 (1.3~6.4) | 6.9 (3.2~9.0) | 8.8 (4.2~12) | 11.8 (2.0~13.0) | 17.5 (4.2~18.5) |
| | EER | W/W | 3.47 | 3.40 | 3.25 | 3.23 | 3.33 |
| Heating | Capacity | Btu/h | 13000 (1600~14800) | 18200 (8100~21500) | 26000 (9500~29000) | 32000 (9200~33200) | 38000 (9500~42000) |
| | Capacity | kW | 3.81 (0.47~4.34) | 5.33 (2.37~6.10) | 7.62 (2.79~8.50) | 9.38 (2.70~9.73) | 11.14 (2.78~12.30) |
| | Input | W | 1020 (125~1390) | 1420 (700~1950) | 1900 (610~2300) | 2450 (430~2550) | 3000 (800~3950) |
| | Current | A | 4.5 (1.1~6.2) | 6.0 (3.1~8.6) | 8.5 (3.6~10.1) | 11.0 (3.0~11.5) | 13.5 (3.5~17.5) |
| | COP | W/W | 3.74 | 3.76 | 4.01 | 3.83 | 3.71 |
| Indoor air flow (Hi/Mi/Lo) | | $m^3/h$ | 620/520/330 | 660/540/300 | 1247/1118/992 | 1700/1530/1300 | 1700/1530/1300 |
| Indoor sound pressure level (Hi/Mi/Lo/Silent) | | dB(A) | 42/38.5/31.5/25.5 | 44/41/31.5/25 | 45/42.5/37/27.5 | 50.5/48/46/40 | 51/48/46/40 |
| Indoor sound power level (Hi) | | dB(A) | 55 | 59 | 59 | 63 | 63 |
| Outdoor sound pressure level (Hi) | | dB(A) | 57 | 58 | 60 | 62 | 63 |
| Outdoor sound power level (Hi) | | dB(A) | 62 | 65 | 68 | 70 | 70 |
| Dimension (WxDxH) (body) | | mm | 570x570x245 | 570x570x245 | 830x830x205 | 830x830x245 | 830x830x245 |
| Packing (WxDxH) (body) | | mm | 715x640x295 | 715x640x295 | 910x910x250 | 910x910x290 | 910x910x290 |
| Dimension (WxDxH) (panel) | | mm | 620x620x50 | 620x620x50 | 950x950x55 | 950x950x55 | 950x950x55 |
| Packing (WxDxH) (panel) | | mm | 715x700x115 | 715x700x115 | 1035x1035x90 | 1035x1035x90 | 1035x1035x90 |
| Net / Gross weight (body) | | kg | 16.1 / 18.8 | 16.2 / 19 | 21.6 / 25.4 | 24.6 / 28.6 | 27.2 / 31.2 |
| Net / Gross weight | | kg | 2.7 / 4.3 | 2.7 / 4.3 | 6 / 9 | 6 / 9 | 6 / 9 |
| Drainage water pipe diameter | | mm | OD Ø 25mm | | | | |
| Liquid / Gas side Refrigerant piping | | mm | 6.35mm(1/4in) / 9.52mm(3/8in) | 6.35mm(1/4in) / 12.7mm(1/2in) | 9.52mm(3/8in) / 15.9mm(5/8in) | 9.52mm(3/8in) / 15.9mm(5/8in) | 9.52mm(3/8in) / 15.9mm(5/8in) |
| Controller | | | infrared remote control | | | | |
| Operation temperature | | | 16~30 | | | | |
| Room temperature in Cooling | | °C | 16~32 / 0~30 | 16~32 / 0~30 | 16~32 | 16~32 | 16~32 |
| Room temperature in Heating | | °C | -15~50 / -20~24 | -15~50 / -20~24 | 0-30 | 0-30 | 0-30 |

NOTE: The above design and specifications are subject to change without prior notice for product improvement.

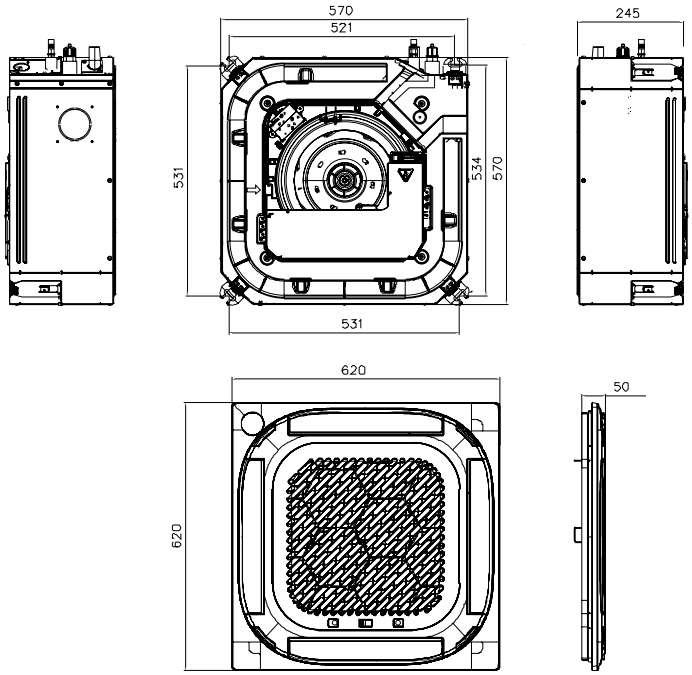
# SMERALDO C
## CASSETTE INDOOR UNIT

| MODEL | | | 36T | 48 | 48T | 55T |
|---|---|---|---|---|---|---|
| Cooling | Pdesignc | kW | 10.5 | 14.0 | 14.0 | 15.3 |
| | SEER | W/W | 6.4 | 6.1 | 6.1 | 6.1 |
| | Energy Efficiency Class | | A | A | A | A |
| Heating (Average) | Pdesignh | kW | 8.2 | 11.2 | 11.2 | 11.8 |
| | SCOP | W/W | 4.0 | 4.0 | 4.0 | 4.0 |
| | Energy Efficiency Class | | A | A | A | A |
| | Tbiv | °C | -7 | -7 | -7 | -7 |
| Heating (Warmer) | Pdesignh | kW | 10.1 | 11.1 | 11.1 | 11.5 |
| | SCOP | W/W | 5.1 | 5.1 | 5.1 | 4.9 |
| | Energy Efficiency Class | | A | A | A | A |
| | Tbiv | °C | 2 | | | |
| Tol | | °C | -15 | | | |
| Power supply - Indoor | | V, Hz, Ph | 220-240V, 1Ph, 50Hz | | | |
| Power supply - Outdoor | | V, Hz, Ph | 380-415V, 3Ph, 50Hz | 220-240V, 1Ph, 50Hz | 380-415V, 3Ph, 50Hz | |
| Cooling | Capacity | Btu/h | 34154 (9200~39000) | 40000 (12000~54000) | 40000 (12000~54000) | 52000 (14000~55000) |
| | Capacity | kW | 10.01 (2.70~11.43) | 11.72 (3.52~15.83) | 11.72 (3.52~15.83) | 15.24 (4.10~16.12) |
| | Input | W | 3044 (890~4150) | 3600 (810~5700) | 3620 (810~6350) | 5700 (1000~6250) |
| | Current | A | 6.5 (1.4~6.5) | 15.9 (5.8~27.7) | 5.6 (1.8~10.3) | 8.8 (2.1~10.7) |
| | EER | W/W | 3.29 | 3.26 | 3.24 | 2.67 |
| Heating | Capacity | Btu/h | 38000 (9500~43200) | 48000 (14000~58000) | 48000 (14000~59000) | 62000 (15000~65000) |
| | Capacity | kW | 11.14(2.78~12.66) | 14.07 (4.20~17) | 14.07 (4.10~17.29) | 18.17 (4.40~19.05) |
| | Input | W | 3000 (780~4000) | 3750 (910~5800) | 3750 (910~5900) | 5700 (1020~6350) |
| | Current | A | 5.0 (1.3~6.4) | 16.5 (6.6~25.3) | 5.7 (1.9~9.6) | 8.8 (2.1~10.8) |
| | COP | W/W | 3.71 | 3.75 | 3.75 | 3.19 |
| Indoor air flow (Hi/Mi/Lo) | | $m^3/h$ | 1700/1530/1300 | 1900/1750/1600 | 1900/1750/1600 | 2000/1850/1650 |
| Indoor sound pressure level (Hi/Mi/Lo/Silent) | | dB(A) | 51/49/46/39 | 53/50.5/45/39 | 51.5/49.0/46.5/38.5 | 53/50.5/45.5/40 |
| Indoor sound power level (Hi) | | dB(A) | 63 | 66 | 66 | 66 |
| Outdoor sound pressure level (Hi) | | dB(A) | 63 | 64 | 64.0 | 65 |
| Outdoor sound power level (Hi) | | dB(A) | 70 | 73 | 73 | 75 |
| Dimension (WxDxH) body) | | mm | 830x830x245 | 830x830x287 | 830x830x287 | 830x830x287 |
| Packing (WxDxH) (body) | | mm | 910x910x290 | 910x910x330 | 910x910x330 | 910x910x330 |
| Dimension (WxDxH)(panel) | | mm | 950x950x55 | 950x950x55 | 950x950x55 | 950x950x55 |
| Packing (WxDxH) (panel) | | mm | 1035x1035x90 | 1035x1035x90 | 1035x1035x90 | 1035x1035x90 |
| Net / Gross weight (body) | | kg | 27.2 / 31.2 | 29.3 / 33.5 | 29.3 / 33.5 | 29.3 / 33.5 |
| Net / Gross weight | | kg | 6 / 9 | | | |
| Drainage water pipe diameter | | mm | OD Ø 25mm | | | |
| Liquid / Gas side refrigerant piping | | mm | 9.52mm (3/8in) / 15.9mm (5/8in) | 9.52mm (3/8in) / 15.9mm (5/8in) | 9.52mm (3/8in) / 15.9mm (5/8in) | 9.52mm (3/8in) / 15.9mm (5/8in) |
| Controller | | | infrared remote control | | | |
| Operation temperature | | | 16~30 | | | |
| Room temperature in Cooling | | °C | 16~32 | | | |
| Room temperature in Heating | | °C | 0-30 | | | |

NOTE: The above design and specifications are subject to change without prior notice for product improvement.

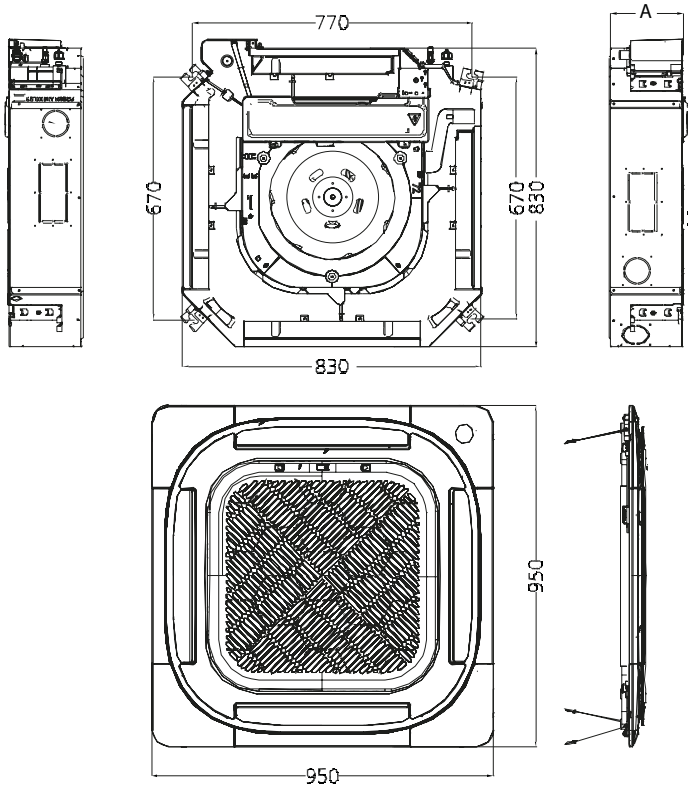
# SMERALDO C
## CASSETTE INDOOR UNIT

**models 12-18**



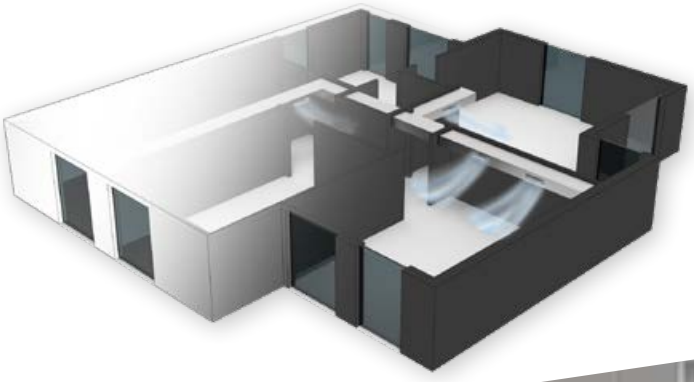

NOTE: The dimensions are expressed in mm

**models 24-55T**




| Mod. | | A |
|---|---|---|
| **24** | mm | 205 |
| **36-36T** | mm | 245 |
| **48-48T** | mm | 287 |
| **55T** | mm | 287 |

# SMERALDO C
## DUCTED INDOOR UNIT

**Perfect solution for room air conditioning using air distribution through a duct network**

- Ducted Indoor unit with small dimensions (only 200 mm high for mod. 12, 245 mm high for mod. 18-48, and 300 mm high for mod. 55T). Ideal for installation in false ceilings with low ceiling heights
- Golden Fin protection in coil
- DC Inverter fan: high efficiency and reduced sound level
- Static pressure available up to 160 Pa (depending on model)
- Automatic static pressure adjustment available
- Condensate drainage pump available as an accessory
- Vertical installation possible
- Maximum refrigerant piping lengths: 25-30m for models up to 18, 50m for models 24 and 30, and 75m for models 36-50
- Low noise level
- Possibility of outside air supply
- Flexible installation: air intake direction can be changed from rear side to lower side
- Standard wired remote control with large display for complete control of the unit

# SMERALDO C
## DUCTED INDOOR UNIT

| MODEL | | | 12 | 18 | 24 | 30 | 36 |
|---|---|---|---|---|---|---|---|
| Cooling | Pdesignc | kW | 3.5 | 5.3 | 7.1 | 8.8 | 10.5 |
| | SEER | W/W | 6.5 | 6.5 | 6.6 | 6.6 | 6.3 |
| | Energy Efficiency Class | | A | A | A | A | A |
| Heating (Average) | Pdesignh | kW | 2.7 | 4.3 | 5.6 | 8.0 | 8.4 |
| | SCOP | W/W | 4.1 | 4.1 | 4.2 | 4.2 | 4.1 |
| | Energy Efficiency Class | | A | A | A | A | A |
| | Tbiv | °C | -7 | -7 | -7 | -7 | -7 |
| Heating (Warmer) | Pdesignh | kW | 3.4 | 5.2 | 6.5 | 8.2 | 10 |
| | SCOP | W/W | 5.1 | 5.1 | 5.4 | 5.5 | 5.1 |
| | Energy Efficiency Class | | A | A | A | A | A |
| | Tbiv | °C | 2 | 2 | 2 | 2 | 2 |
| Tol | | °C | -15 | -15 | -15 | -15 | -15 |
| Power supply - Indoor | | V, Hz, Ph | 220-240V, 1Ph, 50Hz | | | | |
| Power supply - Outdoor | | V, Hz, Ph | 220-240V, 1Ph, 50Hz | | | | |
| Cooling | Capacity | Btu/h | 12000 (1800~13334) | 18000 (4500~21000) | 24000 (11000~27000) | 29400 (7600~34000) | 33440 (9400~40000) |
| | Capacity | kW | 3.52 (0.53~3.91) | 5.28 (1.32~6.16) | 7.03 (3.23~7.92) | 8.62 (2.23~9.97) | 9.80 (2.75~11.73) |
| | Input | W | 1090 (155~1465) | 1590 (360~2130) | 2170 (750~2860) | 2660 (190~3450) | 3030 (900~4300) |
| | Current | A | 4.82 (1.3~6.47) | 7.1 (1.6~9.4) | 9.6 (4.2~12.6) | 11.8 (2.0~15) | 13.6 (4.2~19) |
| | EER | W/W | 3.23 | 3.32 | 3.24 | 3.24 | 3.23 |
| Heating | Capacity | Btu/h | 11500 (3400~15241) | 20500 (5100~21500) | 27200 (9500~29200) | 32000 (9200~34100) | 35000 (9500~43000) |
| | Capacity | kW | 3.37 (1.00~4.47) | 6.01 (1.50~6.31) | 8.0 (2.79~8.56) | 9.38 (2.70~10) | 10.3 (2.78~12.61) |
| | Input | W | 900 (302~1423) | 1615 (500~1850) | 2000 (640~2500) | 2400 (430~2550) | 2750 (800~3950) |
| | Current | A | 3.98 (1.48~6.29) | 7.2 (2.2~8.1) | 9 (3.8~11) | 10.6 (3.0~11.5) | 12.2 (3.5~17.5) |
| | COP | W/W | 3.74 | 3.72 | 3.99 | 3.91 | 3.73 |
| Indoor air flow (Hi/Mi/Lo) | | $m^3/h$ | 660/570/470 | 900/780/650 | 1200/1000/700 | 1500/1200/900 | 1700/1400/1100 |
| ESP | Rated | Pa | 25 | 25 | 25 | 37 | 37 |
| | Range | Pa | 0-100 | 0-160 | 0-160 | 0-160 | 0-160 |
| Indoor sound pressure level (Hi/Mi/Lo/Silent) | | dB(A) | 35/33/31/26 | 36.5/34/31/25 | 33.5/32.5/31/27.5 | 39/37/35/30 | 38/36/33/29 |
| Indoor sound power level (Hi) | | dB(A) | 52 | 53 | 56 | 60 | 62 |
| Outdoor sound pressure level (Hi) | | dB(A) | 55.5 | 59 | 60 | 60 | 65 |
| Outdoor sound power level (Hi) | | dB(A) | 62 | 62 | 69 | 70 | 70 |
| Dimension (WxDxH) (IU) | | mm | 700x450x200 | 700x750x245 | 1000x750x245 | 1000x750x245 | 1200x750x245 |
| Packing (WxDxH) (IU) | | mm | 860x540x285 | 925x850x298 | 1225x860x304 | 1225x860x304 | 1425x860x304 |
| Net / Gross weight (UI) | | kg | 16.6 / 19.8 | 24.4 / 29 | 31.8 / 37.2 | 32.7 / 38.3 | 38.4 / 44.4 |
| Drainage water pipe diameter | | mm | OD Ø 25mm | | | | |
| Liquid side / Gas side refrigerant piping | | mm | 6.35mm (1/4in) / 9.52mm (3/8in) | 6.35mm (1/4in) / 12.7mm (1/2in) | | 9.52mm (3/8in) / 15.9mm (5/8in) | |
| Controller | | | wired remote control | | | | |
| Operation temperature | | °C | 16~30 | 16~30 | 16~30 | 16~30 | 16~30 |
| Room temperature in Cooling | | °C | 16~32 | 16~32 | 16~32 | 16~32 | 16~32 |
| Room temperature in Heating | | °C | 0-30 | 0-30 | 0-30 | 0-30 | 0-30 |

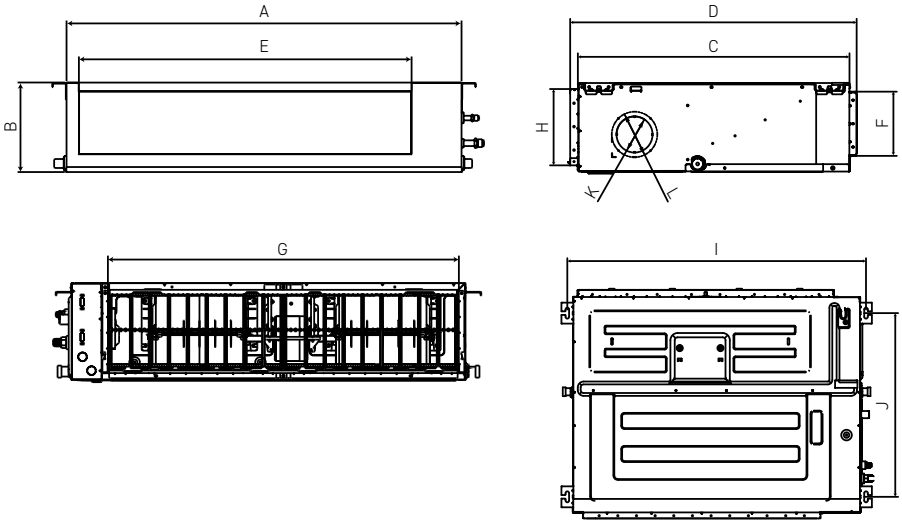
NOTE: The above design and specifications are subject to change without prior notice for product improvement.

# SMERALDO C
## DUCTED INDOOR UNIT

| MODEL | | | 36T | 42 | 48 | 48T | 55T |
|---|---|---|---|---|---|---|---|
| Cooling | Pdesignc | kW | 10.6 | 12.1 | 14.0 | 14.0 | 15.3 |
| | SEER | W/W | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | Energy Efficiency Class | | A | A | A | A | A |
| Heating (Average) | Pdesignh | kW | 8.8 | 9.5 | 11.5 | 11.5 | 12.5 |
| | SCOP | W/W | 4.0 | 4.1 | 4.0 | 4.0 | 4.0 |
| | Energy Efficiency Class | | A | A | A | A | A |
| | Tbiv | °C | -7 | -7 | -7 | -7 | -7 |
| Heating (Warmer) | Pdesignh | kW | 10 | 10.2 | 11.5 | 11.2 | 12.8 |
| | SCOP | W/W | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| | Energy Efficiency Class | | A | A | A | A | A |
| | Tbiv | °C | 2 | 2 | 2 | 2 | 2 |
| Tol | | °C | -15 | -15 | -15 | -15 | -15 |
| Power supply - Indoor | | V, Hz, Ph | 220-240V, 1Ph, 50Hz | | | | |
| Power supply - Outdoor | | V, Hz, Ph | 380-415V, 3Ph, 50Hz | 220-240V, 1Ph, 50Hz | | 380-415V, 3Ph, 50Hz | |
| Cooling | Capacity | Btu/h | 31400 (9300~40000) | 36300 (10000~42000) | 42300 (12000~51000) | 42300 (12000~54000) | 52000 (14000~59000) |
| | Capacity | kW | 9.20 (2.726~11.73) | 10.64 (2.93~12.31) | 12.4 (3.52~14.95) | 12.4 (3.52~15.83) | 15.24 (4.10~17.29) |
| | Input | W | 2830 (890~4200) | 3290 (680~4500) | 3830 (810~6150) | 3830 (810~6450) | 5250 (1030~6650) |
| | Current | A | 4.4 (1.4~6.7) | 14.6 (3.1~19.8) | 16.9 (4~26.7) | 6.0 (1.8~10.5) | 8.1 (3.1~11.5) |
| | EER | W/W | 3.25 | 3.23 | 3.24 | 3.24 | 2.90 |
| Heating | Capacity | Btu/h | 34500 (9500~43800) | 46000 (11500~48000) | 51600 (14000~59000) | 52000 (14000~60000) | 60000 (15000~70000) |
| | Capacity | kW | 10.1 (2.78~12.84) | 13.48 (3.37~14.07) | 15.12 (4.11~17.30) | 15.24 (4.11~17.59) | 17.58 (4.40~20.52) |
| | Input | W | 2710 (780~4000) | 3550 (750~4100) | 4060 (950~5700) | 4100 (950~5800) | 4740 (950~6600) |
| | Current | A | 4.3 (1.3~6.4) | 16.0 (3.4~18.5) | 17.6 (4.5~25) | 7.1 (2~9) | 7.4 (2~11.5) |
| | COP | W/W | 3.75 | 3.80 | 3.72 | 3.72 | 3.71 |
| Indoor air flow (Hi/Mi/Lo) | | $m^3/h$ | 1700/1400/1100 | 2000/1700/1300 | 2000/1700/1300 | 2000/1700/1300 | 2200/1900/1500 |
| ESP | Rated | Pa | 37 | 50 | 50 | 50 | 50 |
| | Range | Pa | 0-160 | 0-160 | 0-160 | 0-160 | 0-160 |
| Indoor sound pressure level (Hi/Mi/Lo/Silent) | | dB(A) | 39/37/34/29 | 39/37/35.5/33 | 46/44/42/36 | 43.5/41.5/39.5/36 | 44.5/43/41.5/38 |
| Indoor sound power level (Hi) | | dB(A) | 62 | 62 | 64 | 65 | 66 |
| Outdoor sound pressure level (Hi) | | dB(A) | 65 | 63.5 | 64.5 | 64.5 | 64 |
| Outdoor sound power level (Hi) | | dB(A) | 70 | 72 | 74 | 73 | 75 |
| Dimension (WxDxH) (IU) | | mm | 1200x750x245 | 1200x750x245 | 1200x750x245 | 1200x750x245 | 1200x750x300 |
| Packing (WxDxH) (IU) | | mm | 1425x860x304 | 1425x860x304 | 1425x860x304 | 1425x860x304 | 1425x860x354 |
| Net / Gross weight (UI) | | kg | 38.4 / 44.4 | 40.6 / 46.1 | 40.4 / 46.8 | 40.4 / 46.8 | 42.9 / 49.1 |
| Drainage water pipe diameter | | mm | OD Ø 25mm | | | | |
| Liquid side / Gas side refrigerant piping | | mm | 9.52mm (3/8in) / 15.9mm (5/8in) | | | | |
| Controller | | | wired remote control | | | | |
| Operation temperature | | °C | 16~30 | 16~30 | 16~30 | 16~30 | 16~30 |
| Room temperature in Cooling | | °C | 16~32 | 16~32 | 16~32 | 16~32 | 16~32 |
| Room temperature in Heating | | °C | 0-30 | 0-30 | 0-30 | 0-30 | 0-30 |

NOTE: The above design and specifications are subject to change without prior notice for product improvement.

# SMERALDO C
## DUCTED INDOOR UNIT




| MODEL | | Outline dimensions | | | | Air outlet opening size | | Air return opening size | | Size of mounted lug | | Fresh air intake opening size | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | I | J | K | L |
| **9-12** | mm | 700 | 200 | 506 | 450 | 152 | 537 | 186 | 599 | 741 | 360 | - | - |
| **18** | mm | 700 | 245 | 750 | 795 | 527 | 178 | 592 | 212 | 740 | 640 | 100 | 126 |
| **24-30** | mm | 1000 | 245 | 750 | 795 | 827 | 178 | 892 | 212 | 1040 | 640 | 100 | 126 |
| **36-48 / 36T-48T** | mm | 1200 | 245 | 750 | 795 | 1027 | 178 | 1092 | 212 | 1240 | 640 | 100 | 126 |
| **55T** | mm | 1200 | 300 | 750 | 795 | 1027 | 233 | 1092 | 267 | 1240 | 640 | 125 | 160 |

# SMERALDO C

## FLOOR / CEILING INDOOR UNIT

**Perfect solution for room air conditioning using the floor/ ceiling, allowing air distribution from the ceiling or from the floor according to the needs of each room**

- Horizontal ceiling or vertical floor installation possible
- Golden Fin protection in coil
- DC Inverter fan, to obtein high efficiency and reduced sound level
- Compact unit with a thickness of 235 mm only
- Infrared remote control as standard with a large display for complete control of the unit (optional wired remote control)
- WIFI connection available (accessory). Possibility of controlling the unit via App

# SMERALDO C
## FLOOR / CEILING INDOOR UNIT

| MODEL | | | 18 | 24 | 36 | 36T |
|---|---|---|---|---|---|---|
| Cooling | Pdesignc | kW | 5.4 | 7.1 | 10.5 | 10.5 |
| | SEER | W/W | 6.2 | 6.3 | 6.4 | 6.2 |
| | Energy Efficiency Class | |  |  |  |  |
| Heating (Average) | Pdesignh | kW | 4.0 | 5.9 | 8.6 | 8.6 |
| | SCOP | W/W | 4.0 | 4.1 | 4.1 | 4.0 |
| | Energy Efficiency Class | |  |  |  |  |
| | Tbiv | °C | -7 | -7 | -7 | -7 |
| Heating (Warmer) | Pdesignh | kW | 5.1 | 5.7 | 10.0 | 10.2 |
| | SCOP | W/W | 5.1 | 5.4 | 5.1 | 5.1 |
| | Energy Efficiency Class | |  |  |  |  |
| | Tbiv | °C | 2 | 2 | 2 | 2 |
| Tol | | °C | -15 | -15 | -15 | -15 |
| Power supply - Indoor | | V, Hz, Ph | 220-240V, 1Ph, 50Hz | | | |
| Power supply - Outdoor | | V, Hz, Ph | 220-240V, 1Ph, 50Hz | | | 380-415V, 3Ph, 50Hz |
| Cooling | Capacity | Btu/h | 18000 (9250~20000) | 23200 (10990~27100) | 34460 (9300~39000) | 34460 (9300~40200) |
| | Capacity | kW | 5.28 (2.71~5.86) | 6.80 (3.22~7.95) | 10.1 (2.73~11.43) | 10.1 (2.73~11.78) |
| | Input | W | 1450 (670~2027) | 2060 (750~2730) | 3080 (900~4250) | 3100 (890~4300) |
| | Current | A | 6.0 (3.2~9) | 9.04 (3.9~12.1) | 13.6 (4.2~19.0) | 6.30 (1.4~6.80) |
| | EER | W/W | 3.64 | 3.30 | 3.28 | 3.26 |
| Heating | Capacity | Btu/h | 19000 (8250~21500) | 26000 (9280~29000) | 40000 (9600~43600) | 39960 (9500~43600) |
| | Capacity | kW | 5.57 (2.42~6.30) | 7.62 (2.72~8.50) | 11.72 (2.78~12.78) | 11.71 (2.81~12.78) |
| | Input | W | 1500 (540~1640) | 1980 (650~2940) | 3160 (800~3950) | 3140 (780~3950) |
| | Current | A | 6.6 (2.7~7.3) | 8.7 (3.5~10.60) | 15.0 (3.5~17.5) | 5.5 (1.3~6.20) |
| | COP | W/W | 3.71 | 3.85 | 3.71 | 3.73 |
| Indoor air flow (Hi/Mi/Lo) | | $m^3/h$ | 958/839/723 | 1192/1023/853 | 1955/1728/1504 | 1955/1728/1504 |
| Indoor sound pressure level (Hi/Mi/Lo/Silent) | | dB(A) | 44/41/37/24 | 49.5/45.5/36.5/22.5 | 51.5/48/45/39 | 51/47.5/45/37 |
| Indoor sound power level (Hi) | | dB(A) | 57 | 63 | 64 | 64 |
| Outdoor sound pressure level (Hi) | | dB(A) | 59 | 60.5 | 63 | 63 |
| Outdoor sound power level (Hi) | | dB(A) | 65 | 69 | 70 | 68 |
| Dimension (WxDxH) | | mm | 1068x675x235 | 1068x675x235 | 1650x675x235 | 1650x675x235 |
| Packing (WxDxH) | | mm | 1145x755x318 | 1145x755x318 | 1725x755x318 | 1725x755x318 |
| Dimension (WxDxH) | | mm | 28/33.3 | 28/33.1 | 41.5/48 | 41.5/48 |
| Drainage water pipe diameter | | mm | OD Ø 25mm | | | |
| Liquid side / Gas side refrigerant piping | | mm | 6.35mm (1/4in) / 12.7mm (1/2in) | 9.52mm (3/8in) / 15.9mm (5/8in) | | |
| Controller | | | infrared remote control | | | |
| Operation temperature | | °C | 16~30 | | | |
| Room temperature in Cooling | | °C | 16~32 | | | |
| Room temperature in Heating | | °C | 0~30 | | | |

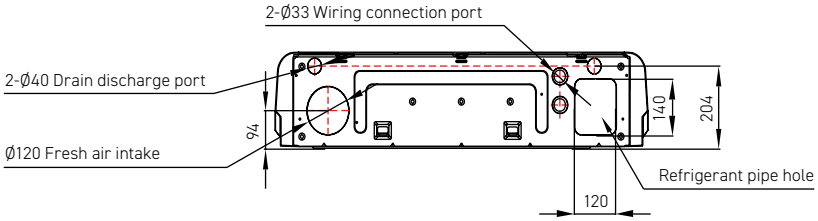
NOTE: The above design and specifications are subject to change without prior notice for product improvement.

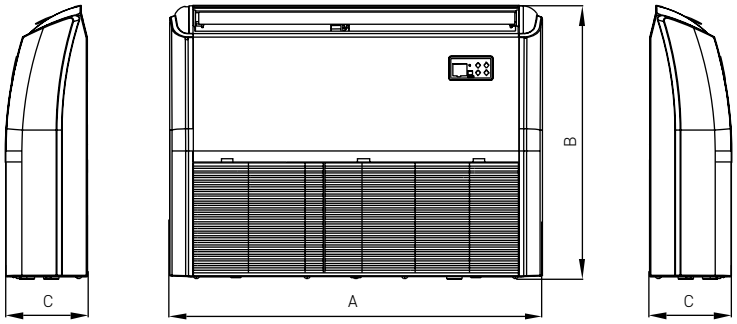
# SMERALDO C
## FLOOR / CEILING INDOOR UNIT

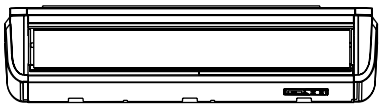
| MODEL | | | 48 | 48T | 55T |
|---|---|---|---|---|---|
| Cooling | Pdesignc | kW | 14.0 | 14.0 | 15.3 |
| | SEER | W/W | 6.1 | 6.1 | 6.1 |
| | Energy Efficiency Class | |  |  |  |
| Heating (Average) | Pdesignh | kW | 11.2 | 11.2 | 11.8 |
| | SCOP | W/W | 4.0 | 4.0 | 4.0 |
| | Energy Efficiency Class | |  |  |  |
| | Tbiv | °C | -7 | -7 | -7 |
| Heating (Warmer) | Pdesignh | kW | 11.5 | 11.5 | 11.5 |
| | SCOP | W/W | 5.1 | 5.1 | 5.1 |
| | Energy Efficiency Class | |  |  |  |
| | Tbiv | °C | 2 | 2 | 2 |
| Tol | | °C | -15 | -15 | -15 |
| Power supply - Indoor | | V, Hz, Ph | 220-240V, 1Ph, 50Hz | | |
| Power supply - Outdoor | | V, Hz, Ph | 220-240V, 1Ph, 50Hz | 380-415V, 3Ph, 50Hz | |
| Cooling | Capacity | Btu/h | 41600 (12000~54000) | 41300 (12000~52000) | 52000 (14000~55000) |
| | Capacity | kW | 12.2 (3.52~15.83) | 12.1 (3.52~15.24) | 15.24 (4.10~16.12) |
| | Input | W | 3770 (810~6350) | 3730 (910~6200) | 5900 (1100~6500) |
| | Current | A | 16.5 (5.8~27.8) | 5.7 (2.1~9.6) | 8.9 (3.1~10.8) |
| | EER | W/W | 3.23 | 3.25 | 2.58 |
| Heating | Capacity | Btu/h | 44000 (14000~59000) | 44000 (14000~60000) | 62000 (15000~66000) |
| | Capacity | kW | 12.9 (4.10~17.30) | 12.9 (4.10~17.59) | 18.17 (4.40~19.35) |
| | Input | W | 3470 (910~6050) | 3470 (950~5950) | 5950 (1120~6350) |
| | Current | A | 15.3 (6.6~26.5) | 5.3 (2.2~9.2) | 9.1 (3.1~10.5) |
| | COP | W/W | 3.72 | 3.72 | 3.05 |
| Indoor air flow (Hi/Mi/Lo) | | $m^3/h$ | 2100/1850/1600 | 2100/1850/1600 | 2200/1950/1650 |
| Indoor sound pressure level (Hi/Mi/Lo/Silent) | | dB(A) | 53/49/42.5/36 | 51/49/43/35 | 53/50/42/36 |
| Indoor sound power level (Hi) | | dB(A) | 67 | 68 | 70 |
| Outdoor sound pressure level (Hi) | | dB(A) | 64 | 64 | 65 |
| Outdoor sound power level (Hi) | | dB(A) | 74 | 73 | 75 |
| Dimension (WxDxH) | | mm | 1650x675x235 | 1650x675x235 | 1650x675x235 |
| Packing (WxDxH) | | mm | 1725x755x318 | 1725x755x318 | 1725x755x318 |
| Dimension (WxDxH) | | mm | 41.7/48.5 | 41.7/48.5 | 42.3/49.2 |
| Drainage water pipe diameter | | mm | OD Ø 25mm | | |
| Liquid side / Gas side refrigerant piping | | mm | 9.52mm (3/8in) / 15.9mm (5/8in) | | |
| Controller | | | infrared remote control | | |
| Operation temperature | | °C | 16~30 | | |
| Room temperature in Cooling | | °C | 16~32 | | |
| Room temperature in Heating | | °C | 0~30 | | |

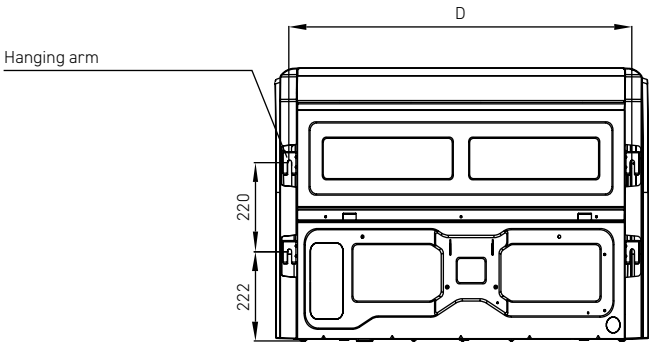
NOTE: The above design and specifications are subject to change without prior notice for product improvement.

# SMERALDO C
## FLOOR / CEILING INDOOR UNIT






| MODEL | | A | B | C | D |
|---|---|---|---|---|---|
| **18-24** | mm | 1068 | 675 | 235 | 983 |
| **36-36T-48-48T-55T** | mm | 1650 | 675 | 235 | 1565 |

# SMERALDO C
## FLOOR STANDING INDOOR UNIT

**The new Floor Standing IU has a high air-conditioning capacity, making it ideal for climatizing large open-plan rooms**

- Modern and elegant aesthetics
- Reduced dimensions for easy integration into commercial premises
- Golden Fin protection in coil
- DC Inverter fan, to obtein high efficiency and reduced sound level
- WIFI connection available. Possibility of controlling the unit via App
- Integrated control panel in the indoor unit
- Available in a singe capacity (14 kW) that can be combined with a single-phase or a three-phase outdoor unit

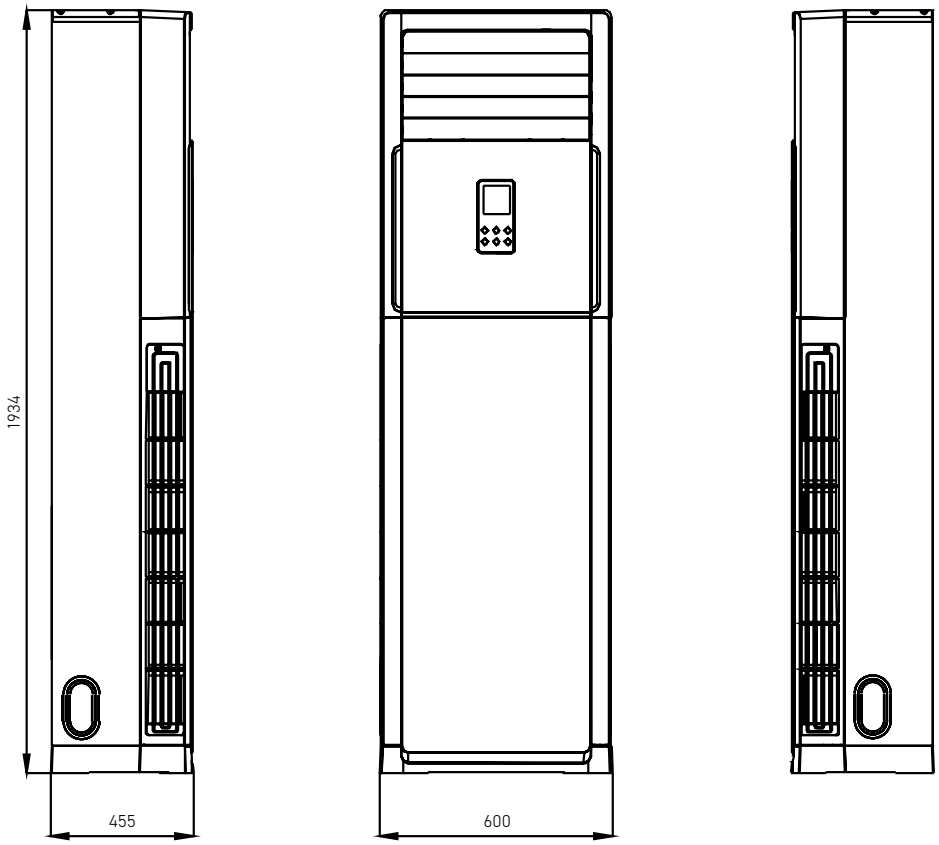
# SMERALDO C
## FLOOR STANDING INDOOR UNIT

| MODEL | | | 48 | 48T |
|---|---|---|---|---|
| Average | Pdesignc | kW | 14,1 | 14,1 |
| | SEER | W/W | 6.0 | 5.8 |
| | Energy Efficiency Class | - | A | A |
| | Seasonal space cooling energy efficiency (ηs,c) | % | 237 | 229 |
| | Pdesignh | kW | 11.4 | 11.4 |
| | SCOP | W/W | 4.0 | 3.8 |
| | Energy Efficiency Class | - | A | A |
| | Seasonal space heating energy efficiency (ηs,c) | % | 157 | 149 |
| | Tbiv | °C | -7 | -7 |
| Warmer | Pdesignh | kW | 11.7 | 11.8 |
| | SCOP | W/W | 4.3 | 4.3 |
| | Energy Efficiency Class | - | A | A |
| | Seasonal space heating energy efficiency (ηs,c) | % | 169 | 169 |
| | Tbiv | °C | 2 | 2 |
| Tol | | °C | -15 | -15 |
| Power supply (Indoor) | | V, Hz, Ph | 220-240V, 1Ph, 50Hz | 220-240V, 1Ph, 50Hz |
| Power supply (Outdoor) | | V, Hz, Ph | 220-240V, 1Ph, 50Hz | 380-415V, 3Ph, 50Hz |
| Cooling | Capacity - nom (min-max) | kW | 14.1 (3.5~15.3) | 14.1 (3.5~15.3) |
| | Input - nom (min-max) | W | 5000 (910~6500) | 5000 (910~6500) |
| | EER | W/W | 2.81 | 2.81 |
| | Current - nom (min-max) | A | 22.2 (4.0~28.8) | 7.6 (2.12~10.5) |
| Heating | Capacity - nom (min-max) | kW | 15.5 (4.1-17.6) | 15.5 (4.1-17.6) |
| | Input - nom (min-max) | W | 4450 (950~6800) | 4500 (950~7200) |
| | COP | W/W | 3.49 | 3.45 |
| | Current - nom (min-max) | A | 19.7 (4.2~29.6) | 6.7 (2.2~12) |
| Indoor fan motor | Quantity | n° | 1 | 1 |
| | Input | W | 210 | 210 |
| | Speed (Hi/Med/Lo) | r/min | 580/500/400 | 580/500/400 |
| Indoor air flow (Hi/Mi/Lo) | | $m^3/h$ | 2080/1910/1745 | 2080/1910/1745 |
| Indoor sound pressure level (Hi/Mi/Lo/Silent) | | dB(A) | 51/49/47/38.5 | 51/48.5/46.5/38 |
| Indoor sound power level (Hi) | | dB(A) | 66 | 66 |
| Outdoor air flow | | $m^3/h$ | 5600 | 5600 |
| Outdoor sound pressure level | | dB(A) | 65 | 65 |
| Outdoor sound power level | | dB(A) | 72 | 72 |
| Dimension (WxDxH) (IU) | | mm | 600x455x1934 | 600x455x1934 |
| Packing (WxDxH) (IU) | | mm | 755x585x2080 | 755x585x2080 |
| Net weight | | kg | 58.6 | 58.6 |
| Gross weight | | kg | 77.5 | 77.5 |
| Liquid side / Gas side refrigerant piping | | mm | 9.52 mm (3/8in) / 15.9 mm (5/8in) | |
| Controller | | Type | on board | |
| Room temperature in Cooling | | °C | 17~32 | |
| Room temperature in Heating | | °C | 0~30 | |

NOTE: The above design and specifications are subject to change without prior notice for product improvement.

# SMERALDO C

## FLOOR STANDING INDOOR UNIT



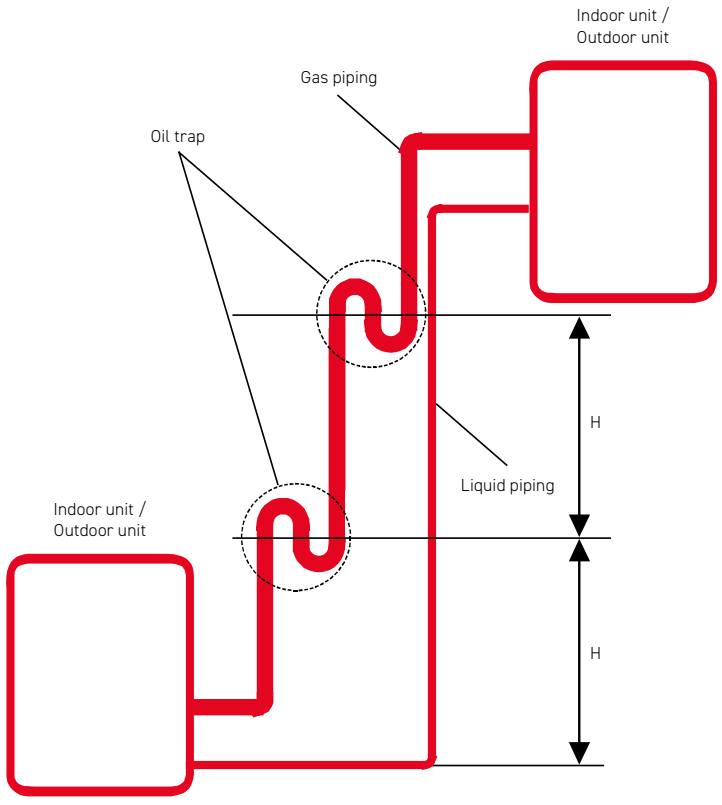

NOTE: The dimensions are expressed in mm

# SMERALDO C

## Electrical connections / Refrigerant connection lines

| MODEL | | | 12 | 18 | 24 | 30 | 36 | 36T | 42 | 48 | 48T | 55T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Outdoor unit power | Phase | - | 1-phase | | | | | 3-phase | 1-phase | | 3-phase | |
| | Frequency and voltage | - | 220-240V, 50Hz | | | | | 380-415V, 50Hz | 220-240V, 50Hz | | 380-415V, 50Hz | |
| | Power wiring | mm² | 3×1.5 | | 3×2.5 | | 3×4.0 | 5×2.5 | 3×4.0 | 3×6.0 | 5×2.5 | |
| | Circuit breaker / Fuse | A | 25 / 20 | | | 40 / 30 | | 25 / 20 | 50 / 40 | | 32 / 25 | |
| Indoor / Outdoor connecting wiring | Strong electric signal | mm² | 4×1.0 | | | | | | | | | |

Refrigeration connections within the limits indicated below are allowed for the units:




**OIL TRAP**

If oil flows back into the outdoor unit's compressor, this might cause liquid compression or deterioration of oil return.

Oil traps in the rising gas piping can prevent this.

An oil trap should be installed every 6m (20ft) of vertical suction line riser (<mod. 36).

An oil trap should be installed every 10m of vertical suction line riser (≥mod. 36).

| MOD. | | | 12 | 18 | 24 | 30 | 36 | 36T | 42 | 48 | 48T | 55T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | Liquid connection | - | 6.35mm (1/4in) | | 9.52mm (3/8in) | | | | | | | |
| | Gas connection | - | 9.52mm (3/8in) | 12.7mm (1/2in) | 15.9mm (5/8in) | | | | | | | |
| Maximum pipe length | | m | 25 | 30 | 50 | | 75 | | | | | |
| Max height difference | | m | 10 | 20 | 25 | | 30 | | | | | |
| Maximum pipe length with standard refrigerant charge | | m | 5 | | | | | | | | | |
| Oil trap (H) | | m | 6 | | | | 10 | | | | | |
| Refrigerant | Type | - | R32 | | | | | | | | | |
| | Charge | kg | 0.71 | 1.15 | 1.4 | 1.8 | 2.4 | 2.4 | 2.8 | 2.9 | 2.9 | 3.2 |
| Additional charge | | g/m | 12 | | 24 | | | | | | | |

Example: if the length of liquid pipe is more than 5 meters, for instance 20 meters the additional refrigerant charge is calculated as:
for models 12÷18 Additional charge = (20-5) x 12 = 180 g / for models 24÷55 Additional charge = (20-5) x 24 = 360 g

# NOTES

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Lamborghini CALORECLIMA

The illustrations and data provided are indicative. Lamborghini CaloreClima reserves the right to make any changes deemed to be most appropriate for the improvement of the product or of the service offered without being obliged to give prior notice.



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